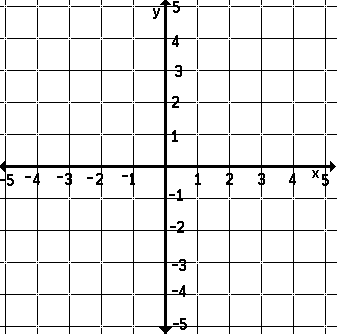
Guided Reflection Notes

Reflecting a point over the *x*- or *y*-axis

**Reflecting over the *x*-axis:**



Write down the ordered pair for A.

If A is reflected across the x- axis, what would be the new point on the graph? Label this point.

Look at both points, what observations can you make about the two points.

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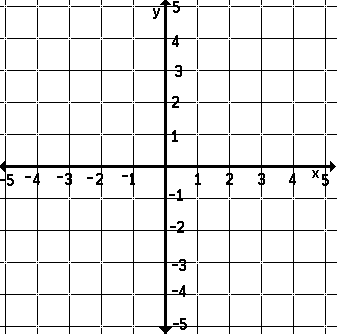
A

Reflecting over the *x*-axis rule: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Try it:

Graph the following points in the correct quadrant of the coordinate plane. If the point is reflected across the *x*-axis, what are the coordinates of the reflected points? What similarities are between coordinates of the original point and reflected point?



A (-5, 2) ( , )

B (2, 4) ( , )

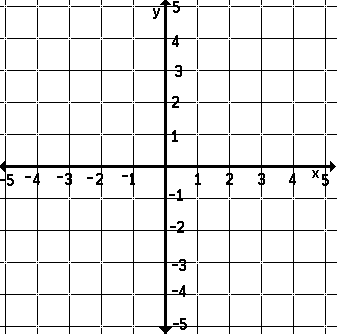
C (-1, 3) ( , )

D (-4, -3) ( , )

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**Reflecting over the *y*-axis:**



Write down the ordered pair for A.

If A is reflected across the y- axis, what would be the new point on the graph? Label this point.

Look at both points, what observations can you make about the two points.

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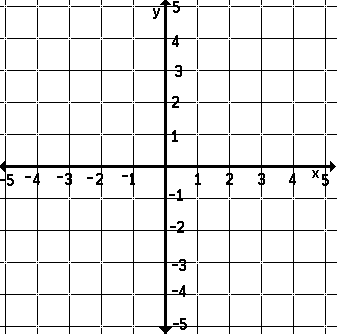
A

Reflecting over the *y*-axis rule: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Try it:

Graph the following points in the correct quadrant of the coordinate plane. If the point is reflected across the *y*-axis, what are the coordinates of the reflected points? What similarities are between coordinates of the original point and reflected point?



A (-5, 2) ( , )

B (2, 4) ( , )

C (-1, 3) ( , )

D (-4, -3) ( , )

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What do you think happens to the following point if it starts at (2, -4) and ends at (-2, 4)?

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